

WHAT IS CLAIMED IS:

1. An image recording apparatus comprising:

an image recorder that records an image on a recording medium;

5 a conveyance mechanism having plural conveyance power suppliers each supplying a conveyance power independent from each other to a recording medium, the conveyance mechanism being capable of conveying, to a region confronting the image recorder, a recording medium with a width thereof extending over the plural conveyance power suppliers;

10 a sensor that detects a recording medium being conveyed by the conveyance mechanism;

a misalignment amount calculator that calculates, based on a detection signal fed from the sensor, a misalignment amount of a recording medium from a given conveyance area; and

15 an individual controller that individually controls the respective plural conveyance power suppliers such that the misalignment amount may become smaller.

2. The image recording apparatus according to Claim 1, wherein:

20 each of the plural conveyance power suppliers is individually driven by a servomotor; and

the individual controller individually controls a rotational frequency of the servomotor.

3. The image recording apparatus according to Claim 1, wherein:

25 each of the plural conveyance power suppliers includes a pair of conveyance

rollers capable of pinching and conveying a recording medium; and

the individual controller individually controls a rotational frequency of the pair of conveyance rollers.

5 4. The image recording apparatus according to Claim 1, further comprising:
a holding member that holds the image recorder such that the image recorder
may confront a recording medium, and

a drive mechanism that reciprocates the holding member in a direction
substantially perpendicular to a conveyance direction of a recording medium;

10 wherein the sensor is attached to the holding member, and detects an edge of a
recording medium in a direction perpendicular to the conveyance direction of the
recording medium.

15 5. The image recording apparatus according to Claim 4, wherein the sensor is a
single point sensor.

6. The image recording apparatus according to Claim 4, wherein the sensor
comprises plural point sensors arranged substantially in parallel to the conveyance
direction of a recording medium.

20

7. The image recording apparatus according to Claim 1, wherein the individual
controller so controls the plural conveyance power suppliers that a recording medium
may be kept stopped while the image recorder is recording an image.

25 8. The image recording apparatus according to Claim 1, further comprising a

detachable roll-portion container for containing a roll portion formed by rolling a long recording medium,

wherein the conveyance mechanism is capable of conveying the recording medium unwound from the roll portion.

5

9. An image recording method comprising the steps of:

conveying a paper to a region confronting an image recorder that records image on a recording medium, by means of plural conveyance power suppliers each supplying a conveyance power independent from each other to a recording medium;

10 detecting, with a sensor, a recording medium in a region confronting the image recorder;

calculating, based on a detection signal fed from the sensor, a misalignment amount of a recording medium from a given conveyance area;

15 intermittently conveying a recording medium as the plural conveyance power suppliers are individually controlled such that the misalignment amount may become smaller; and

recording an image, by means of the image recorder, on a recording medium having conveyed by the plural conveyance power suppliers.